

THE TRIANGLE AND ITS PROPERTIES

Subtopic: EXTERIOR ANGLE OF A TRIANGLE AND ITS PROPERTY

Section 1

1. Mark T for True and F for False

1a. A triangle may have 4 vertices.

1b. No isosceles triangle is obtuse.

2. Choose the correct answer.

2a. Exterior angle of a triangle is = sum of its

- a) interior adjacent angles
- b) interior complementary angles
- c) interior opposite angles
- d) interior supplementary angles

2b. The exterior angle and the adjacent interior angle form a/an,

- a) Adjacent pair
- b) Supplementary pair
- c) Complementary pair
- d) Linear Pair

3. Fill in the blanks

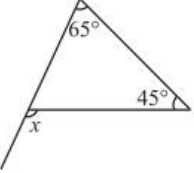
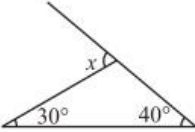
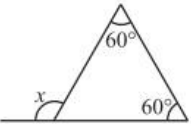
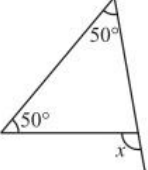
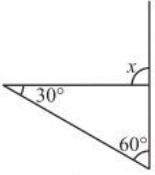
3a. If the exterior angle is z and the interior angles are x and y , then $z =$ _____ than y .

3b. The exterior angle is _____ to its adjacent interior angle.

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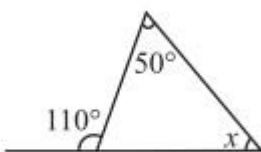
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4. Solve for x in table below.

Figure	Find x
<p>a)</p> 	1)
<p>b)</p> 	2)
<p>c)</p> 	3)
<p>d)</p> 	4)
<p>e)</p> 	5)

Section 2

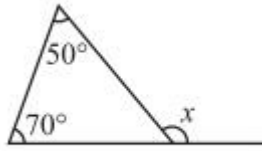
5. Find angle x .



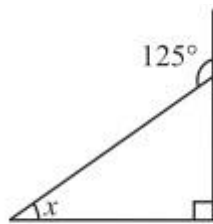
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6. Find the value of the unknown exterior angle in the following diagram.



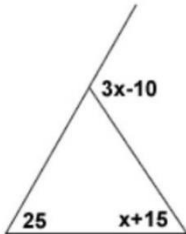
7. Find the value of x in given figure.



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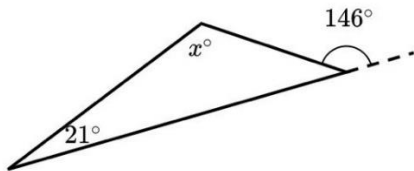
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8. If the measure of the exterior angle is $(3x-10)$ degrees, and the measure of the two remote interior angles are 25 degrees and $(x+15)$ degrees, find x .



Section 3

9. Find the unknown interior angle x .



10. Find the value of the unknown interior angle x in the given diagram.

